

Features

Fluorine free foam

Excellent fire performance on Heptane, Acetone and IPA with both potable and sea water

HOCNF documented and NEMS registered

Description

Fomtec Enviro 3x3 Ultra is a novel multi-purpose alcohol resistant firefighting foam totally free from fluorinated surfactants and polymers.

The unique formulation of Fomtec Enviro 3x3 Ultra enables the foam to rapidly cover burning surfaces and control of the fire. As a result, it is effective against hydrocarbon fires and with the presence of special polymers it is also very effective against polar solvents. In particular the performance on IPA is a significant improvement in comparison with many FFF type products.

When applied on polar solvents a polymeric membrane is formed and makes it possible for the foam blanket to extinguish effectively. It also works on severe foam destroying liquids such as MTBE.

Fomtec Enviro 3x3 Ultra should be used at 3% proportioned solution both on hydrocarbon liquids and polar solvents. When used with sea water the fire performance is slightly reduced on hydrocarbon fuels.

Application

Fomtec Enviro 3x3 Ultra is intended for use on class B hydrocarbon fuels as well as polar solvents like isopropyl alcohol, methanol, ethanol, acetone etc. Fomtec Enviro 3x3 Ultra can be used as low and medium expansion foam. Especially suited for use in mobile firefighting by use of aspirating foam discharge devices such as foam branchpipes and monitors, where application rates and technique can be adjusted to the specifics of each incident. Or in systems designed for use with the product based on recommended minimum applications rates, application duration and discharge devices.

Fomtec Enviro 3x3 Ultra is also effective against class A fires such as wood, paper, textiles etc.

Fire Performance & Foaming

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 6:1, average ¼ drainage time 20:00 minutes using UNI 86 test nozzle.

Equipment

Fomtec Enviro 3x3 Ultra can easily be proportioned at the correct dilution using conventional proportioning

equipment. The equipment should be designed to the foam type.

Fomtec Enviro 3x3 Ultra should be used with aspirating foam discharge devices giving an expansion of more than 7:1 for optimal performance.

Compatibility

Contact one of the Fomtec sales team with questions.

Technical data

Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,035 +/- 0.01 g/ml
Viscosity at 20°C	≤ 4000 mPas
pH	6,5 – 8,5
Freezing point	-12°C
Recommended storage temperature	-12 - 55°C
Suspended sediment (v/v)	Less than 0,2%
Surface tension	≤ 28,0 mN/m

Environmental

Fomtec Enviro 3x3 Ultra is formulated using raw materials specially selected for their fire performance and their environmental profile. The product is totally free from fluorinated surfactants and polymers and other organohalogens, and therefore it does not contain any PFOS or PFOA. Fomtec Enviro 3x3 Ultra is biodegradable. The products is fully documented to the Norwegian HOCNF regulation, and is registered in the NEMS database. The handling of spills of concentrate or foam solutions should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted.

Full details will be found in the Material Safety Datasheet (MSDS).

Storage / Shelf life

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions.

For storage recommendations and material compatibility please refer to our technical dossier addressing the topic.

Inspection/Testing/ Maintenance

The foam concentrate should be tested annually. The testing should be made by a suitable laboratory for analysis of foam concentrates and should measure: pH, specific gravity, expansion, drainage time. Storage containers should be inspected and reevaluated for the suitability of the storage location in regard to temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

Packaging

We supply this product in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

Litres per piece	Packaging	Part no
25 litres	Can	12-3355-01
200 litres	Drum	12-3355-02
1000 litres	Container	12-3355-04
Bulk	Special request	

International Approvals

- EN 1568, part 3 class IB fresh water, IIC sea water
- EN 1568, part 4 IA/IB fresh water, IB/IB sea water
- GESIP approved for hydrocarbon and polar solvent fuels